

Title (en)
ELECTROLYTE FOR REDOX FLOW BATTERY

Title (de)
ELEKTROLYT FÜR REDOX-DURCHFLUSSBATTERIE

Title (fr)
ÉLECTROLYTE POUR BATTERIE À FLUX REDOX

Publication
EP 3073561 A1 20160928 (EN)

Application
EP 16169163 A 20130807

Priority
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• EP 13887535 A 20130807

Abstract (en)
Provided is an electrolyte for a redox flow battery, the electrolyte allowing suppression of generation of precipitate during a battery reaction. In the electrolyte for a redox flow battery, the total concentration of impurity element ions contributing to generation of precipitate during a battery reaction is 220 mass ppm or less. In a case where the impurity element ions contributing to generation of precipitate include metal element ions, the total concentration of the metal element ions may be 195 mass ppm or less. In a case where the impurity element ions contributing to generation of precipitate include non-metal element ions, the total concentration of the non-metal element ions may be 21 mass ppm or less.

IPC 8 full level
H01M 8/18 (2006.01); **H01M 8/02** (2006.01); **H01M 8/20** (2006.01)

CPC (source: EP KR US)
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Citation (applicant)
JP 3897544 B2 20070328

Citation (search report)
• [A] WO 2004099079 A1 20041118 - CLEAN TEQ PTY LTD [AU], et al
• [A] WO 2010138945 A2 20101202 - DEEYA ENERGY INC [US], et al
• [A] EP 0713257 A1 19960522 - KASHIMA KITA ELECTRIC POWER CO [JP]
• [A] EP 1406333 A1 20040407 - SUMITOMO ELECTRIC INDUSTRIES [JP], et al

Cited by
EP3176862A4

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DOCDB simple family (publication)
EP 2876718 A1 20150527; **EP 2876718 A4 20150805**; **EP 2876718 B1 20161102**; AU 2013392797 A1 20150305; AU 2013392797 B2 20171026; AU 2013392797 C1 20180222; CN 105283996 A 20160127; CN 105283996 B 20180330; EP 3073561 A1 20160928; ES 2610853 T3 20170503; IN 1167DEN2015 A 20150626; JP 5590513 B1 20140917; JP WO2014203409 A1 20170223; KR 20150036702 A 20150407; TW 201513428 A 20150401; TW I518959 B 20160121; US 2015221969 A1 20150806; US 9647290 B2 20170509; WO 2014203409 A1 20141224

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